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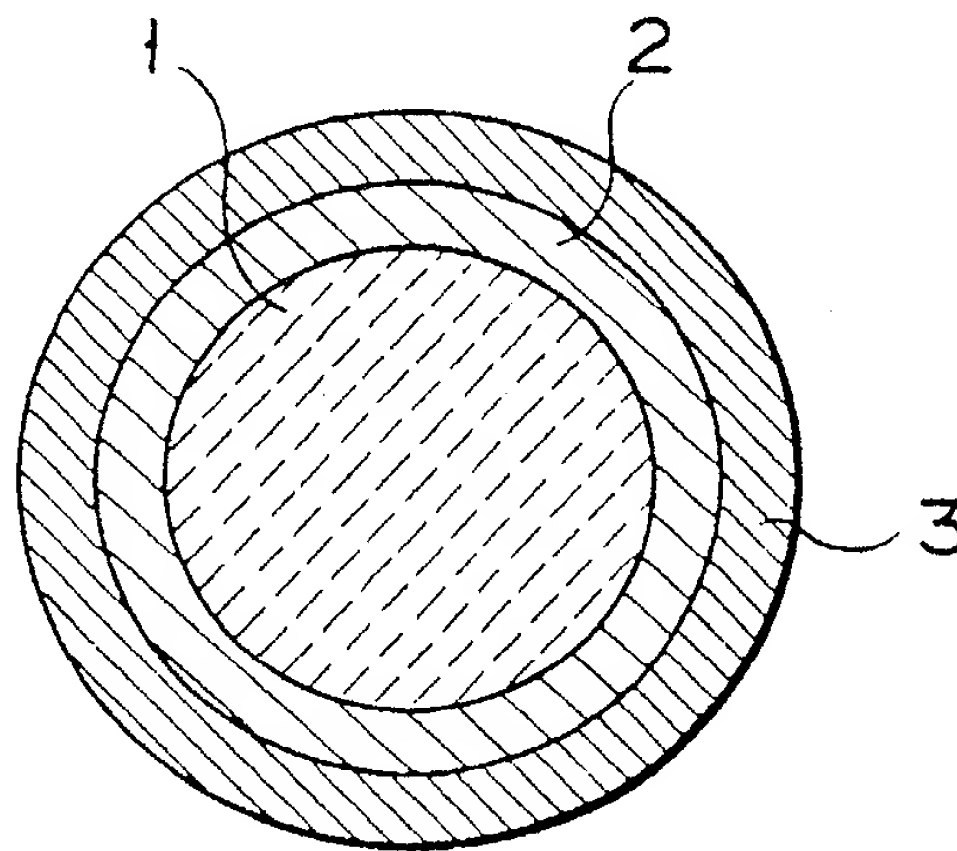
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(54) **Ceramic superconductor wire and method of manufacturing the same.**

(57) Disclosed herein is a ceramic superconductor comprising a ceramic superconductive member, and a high-conductivity metal layer (2) covering the ceramic superconductive member. At least one portion (3) of the metal layer having low electrical conductivity or low thermal conductivity. Also disclosed is a method of manufacturing a ceramic superconductor, comprising the steps of filling a ceramic superconductor or a precursor thereof in a high-conductivity metal pipe, thereby forming a composite member, rolling the composite member into a ceramic superconductor element of a desired shape, which comprises a ceramic superconductive member and a high-conductivity metal layer (2) covering the ceramic superconductive member, performing a predetermined heat treatment on the ceramic superconductor element, and alloying a predetermined portion of the high-conductivity metal layer (2), thereby rendering the portion less conductive either electrically or thermally.



**FIG. 4**

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## EUROPEAN SEARCH REPORT

Application Number

EP 90 11 5234

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
P.X	EP-A-0 358 779 (MITSUBISHI KINZOKU K.K.) * Page 13, paragraph 1; claim 1; figures 6-10 *	1-8,11, 15-16, 18-19	H 01 L 39/14 H 01 L 39/24
P.A	EP-A-0 357 480 (COMMISSARIAT A L'ENERGIE AT-OMIQUE) * Column 4, lines 10-42; claims 1-4,10; figures 1-4 *	1-19	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H 01 L 39
The present search report has been drawn up for all claims			
Place of search		Date of completion of search	Examiner
The Hague		08 March 91	HAMMEL E.J.
<div>CATEGORY OF CITED DOCUMENTS</div> <div><div>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention</div><div>E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... &amp; : member of the same patent family, corresponding document</div></div>			